

Claims

WHAT IS CLAIMED IS:

1. - 10. (canceled)

11. (new) A sliver conveying and depositing device to be connected to a carder, wherein a sliver exiting from a carder exit passes through a draw frame comprised of at least two driven roller pairs and then reaches a can coiler, wherein the draw frame has a main drive for the at least two driven roller pairs and a regulating drive for a last one of the at least two driven roller pairs in a sliver conveying direction; the device comprising:

a first deflection means arranged between the last one of the at least two driven roller pairs and the can coiler;

an arm that is pivotable about a pivot axis wherein the first deflection means is arranged at a free end of the arm;

wherein the sliver is guided across the first deflection means at a deflection angle;

wherein the arm exerts a counter pressure onto the sliver for maintaining a sliver tension;

wherein the first deflection means is displaceable for compensation of a length of the sliver and has a first end position and a second end position;

signal transducers for emitting a signal when the first end position or the second end position of the first deflection means has been reached, respectively;

means for changing a speed of a can coiler drive when one of the signal transducers emits the signal, wherein a time interval elapsed since the last signal has been emitted by one of the signal transducers is taken into account for changing the speed.

12. (new) The fiber conveying and depositing device according to claim 11, wherein two of the signal transducers are arranged slightly displaced relative to one another for detecting the first end position and for detecting the second end position, respectively.

13. (new) The fiber conveying and depositing device according to claim 11, wherein the signal transducers are proximity switches.

14. (new) The fiber conveying and depositing device according to claim 11,

wherein the first deflection means is a roller arranged on the arm so as to be freely rotatable.

15. (new) The fiber conveying and depositing device according to claim 14, further comprising a weight element arranged on the arm for pretensioning the roller and the arm against the sliver.

16. (new) The fiber conveying and depositing device according to claim 14, wherein the arm is a swivel arm comprised of a thin-walled tube.

17. (new) The fiber conveying and depositing device according to claim 16, wherein the thin-walled tube is comprised of carbon fiber.

18. (new) The fiber conveying and depositing device according to claim 14, further comprising a second deflection means that is an additional roller, wherein the additional roller is stationarily supported on the pivot axis of the arm.

19. (new) The fiber conveying and depositing device according to claim 18, wherein the pivot axis of the arm is arranged above the can coiler and the sliver is guided vertically between the additional roller and the can coiler.

20. (new) The fiber conveying and depositing device according to claim 11, wherein the first deflection means has a damping element having a progressive damping characteristic line and acting in a displacement direction of the first deflection means.

21. (new) The fiber conveying and depositing device according to claim 20, further comprising a weight element arranged on the arm for pretensioning the first deflection means and the arm against the sliver, wherein the damping element acts on the pivot axis of the arm.